



Actividad 2

Medicina Basada en Evidencias
Parte 1

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Actividad 2

Problema 1:

	Con cáncer	Sin cáncer	Total
Con tratamiento estrogénico	320	160	480
Sin tratamiento estrogénico	1112	840	1952
Total	1432	1000	2432

$$\text{Sensibilidad} = a/a+c = 320/1432 = 0.22 \rightarrow 22\%$$

$$\text{Especificidad} = d/b+d = 840/1000 = 0.84 \rightarrow 84\%$$

$$\text{VP+} = a/a+b = 320/480 = 0.66$$

$$\text{VP-} = d/c+d = 840/1952 = 0.43$$

$$\text{Exactitud} = a+d / a+b+c+d = 320+840/2432 = 0.47$$

$$\text{Prevalencia} = a+c / a+b+c+d = 1432/2432 = 0.58$$

$$\text{RVP} = \text{sen} / 1 - \text{esp} = 0.22 / 1 - 0.84 = 0.22 / 0.16 = 1.37$$

$$\text{RVN} = 1 - \text{sen} / \text{esp} = 1 - 0.22 / 0.84 = 0.78 / 0.84 = 0.92$$

$$\text{RR} = \text{Cle} / \text{CIne} = \frac{a / (a+b)}{c / (c+d)} = 0.66 / 0.56 = 1.17$$

Problema 2:

	Enfermos DM2	No enfermo DM2	Total
Hemoglobina glucosilada +	1000	350	1350
Hemoglobina glucosilada -	500	850	1350
Total	1500	1200	2700

$$\text{Sensibilidad} = a/a+c = 1000/1500 = 0.66 \rightarrow 66\%$$

$$\text{Especificidad} = d/b+d = 850/1200 = 0.70 \rightarrow 70\%$$

$$\text{VP+} = a/a+b = 1000/1350 = 0.74$$

$$\text{VP-} = d/c+d = 850/1350 = 0.62$$

$$\text{Exactitud} = a+d / a+b+c+d = 1850/2700 = 0.68$$

$$\text{Prevalencia} = a+c / a+b+c+d = 1500/2700 = 0.55$$

Problema 3:

		Con cáncer	Sin cáncer	Total
Expuestos a cromo	a	150	700	850
No expuestos a cromo	b	15	785	800
Total	c+d	165	1485	1650

$$\text{Sensibilidad} = a/a+c = 150/165 = 0.90 \rightarrow 90\%$$

$$\text{Especificidad} = d/b+d = 785/1485 = 0.52 \rightarrow 52\%$$

$$\text{VP+} = a/a+b = 150/850 = 0.17$$

$$\text{VP-} = d/c+d = 785/800 = 0.98$$

$$\text{Exactitud} = a+d / a+b+c+d = 150+785/1650 = 935/1650 = 0.56$$

$$\text{Prevalencia} = a+c / a+b+c+d = 165/1650 = 0.1$$

$$\text{RVP} = \text{sen} / 1 - \text{esp} = 0.90 / 1 - 0.52 = 0.90 / 0.48 = 1.875$$

$$\text{RVN} = 1 - \text{sen} / \text{esp} = 1 - 0.90 / 0.52 = 0.10 / 0.52 = 0.19$$

$$\text{Razón de momios} = \frac{a/c}{b/d} = \frac{ad}{bc} = \mathbf{10/0.89 = 11.23} \text{ ó } \mathbf{117,750/10,500 = 11.21}$$